

FIG. 2A

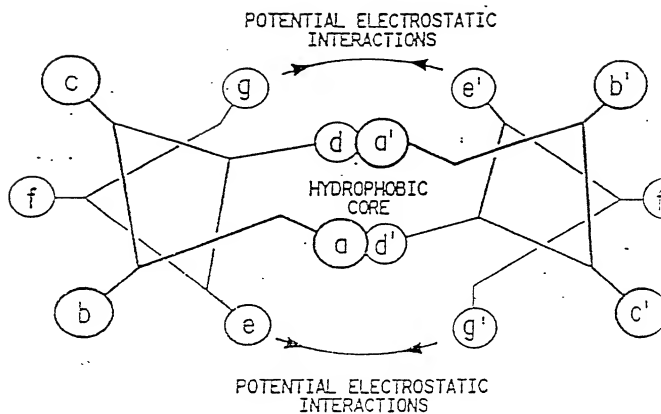


FIG. 2B

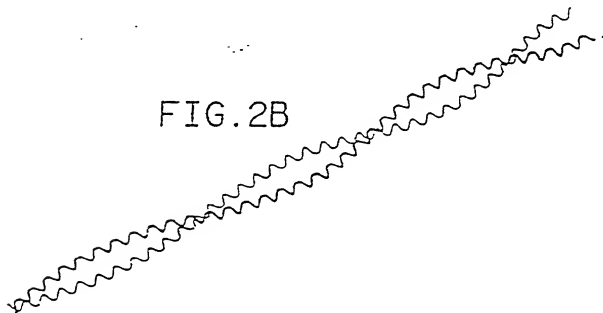
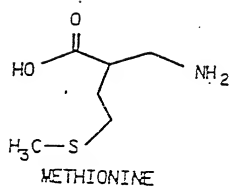
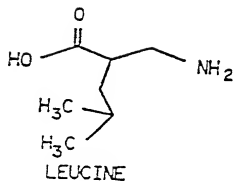


FIG. 3



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FIG. 4a

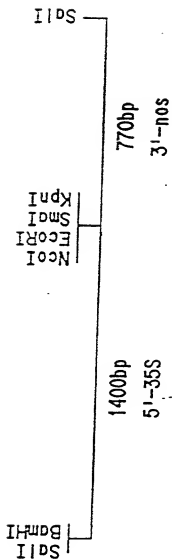


FIG. 4b

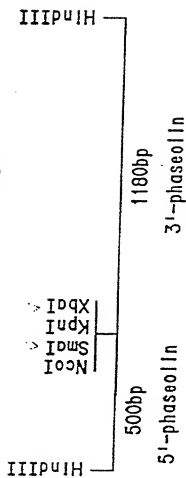
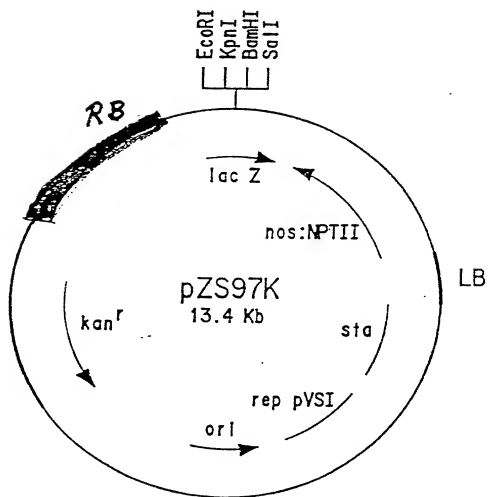
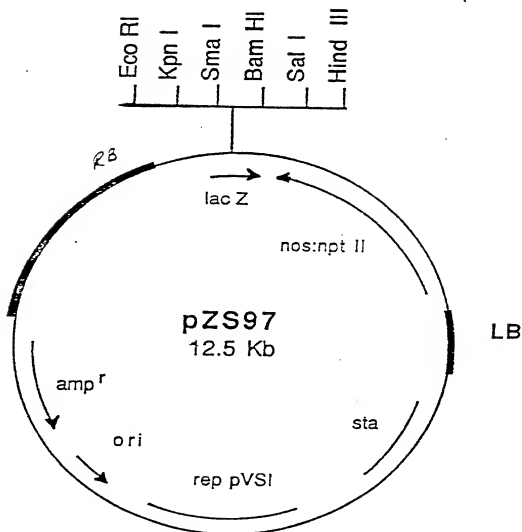


FIG. 5



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FIG. 6



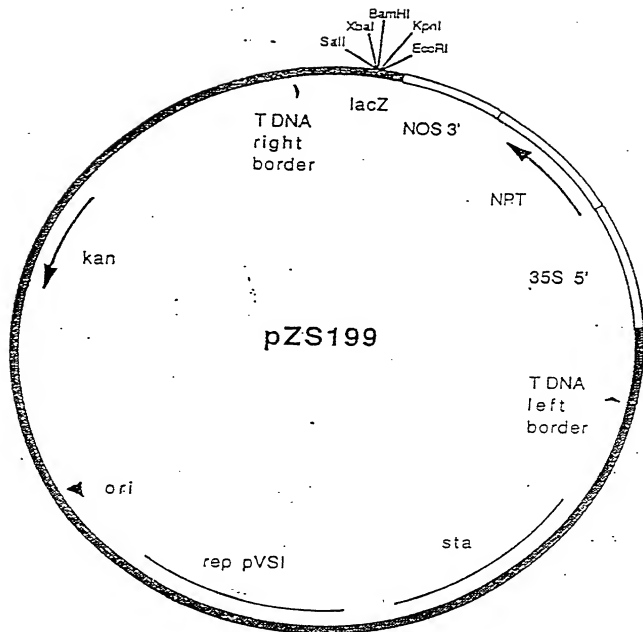


FIG. 7A

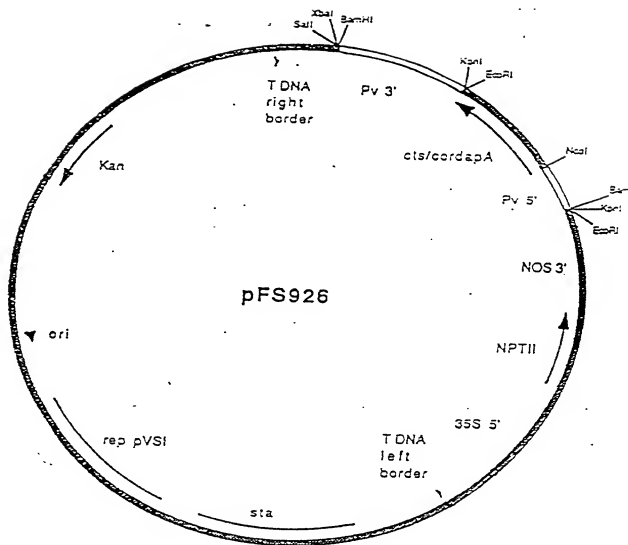


FIG. 7B

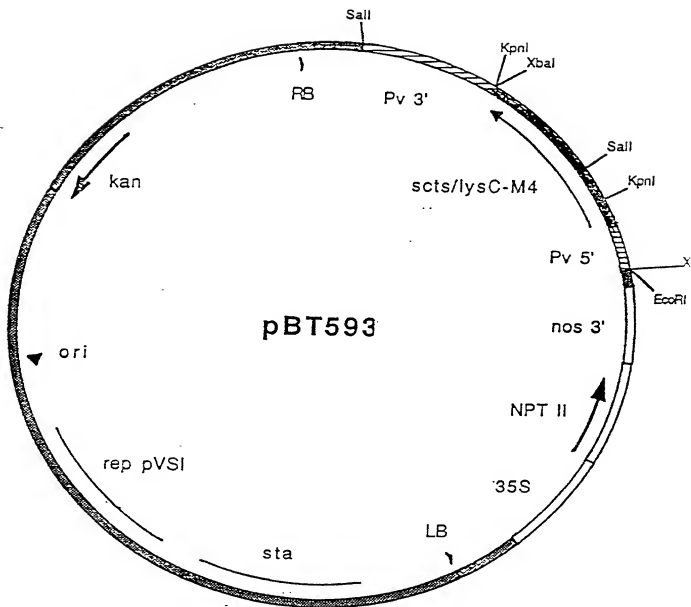


FIG. 7C

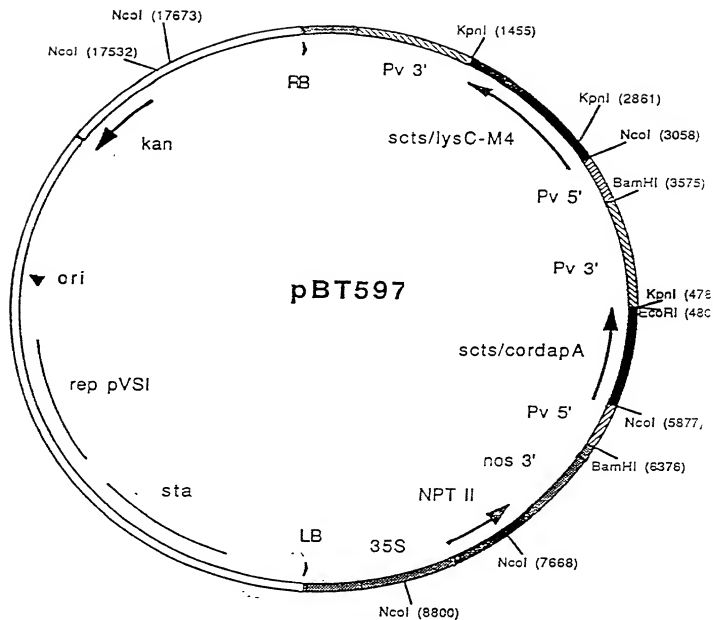


FIG. 7D

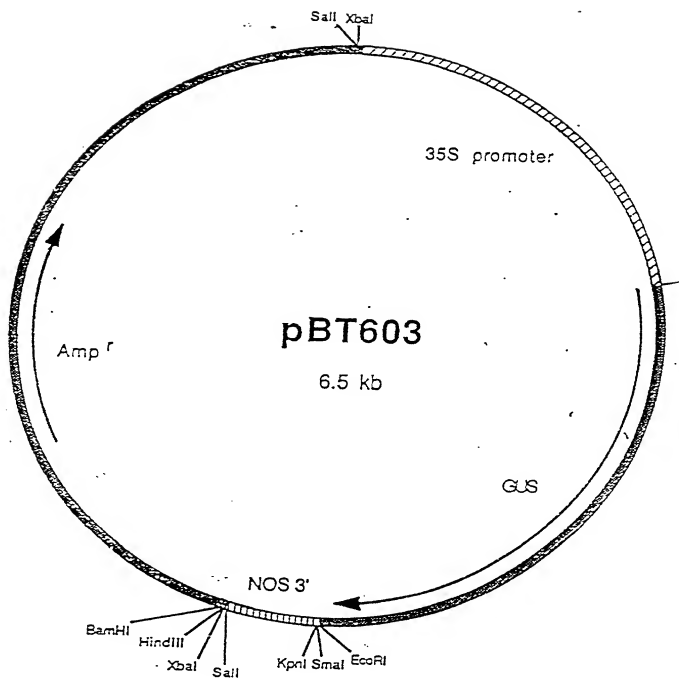


FIG. 6A 8A

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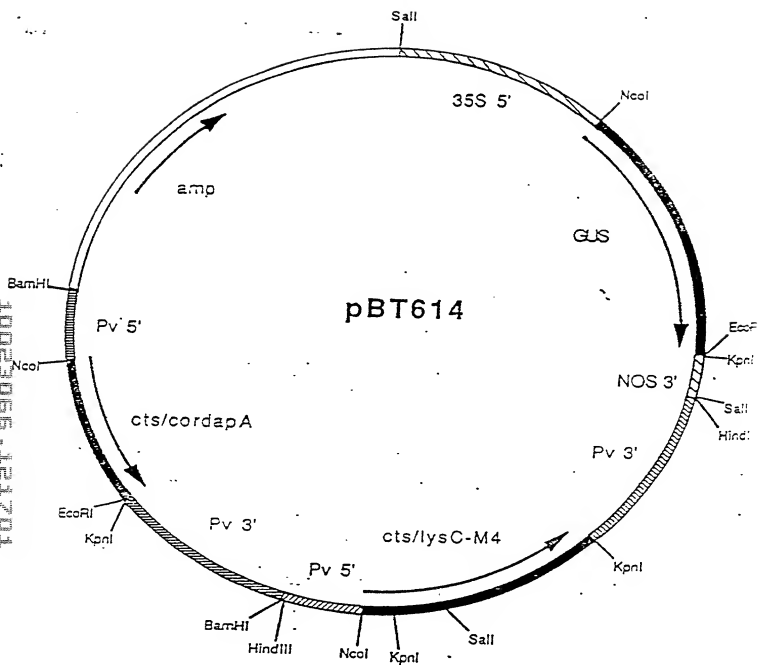


FIG. ~~6B~~ 8B

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FIG. 1

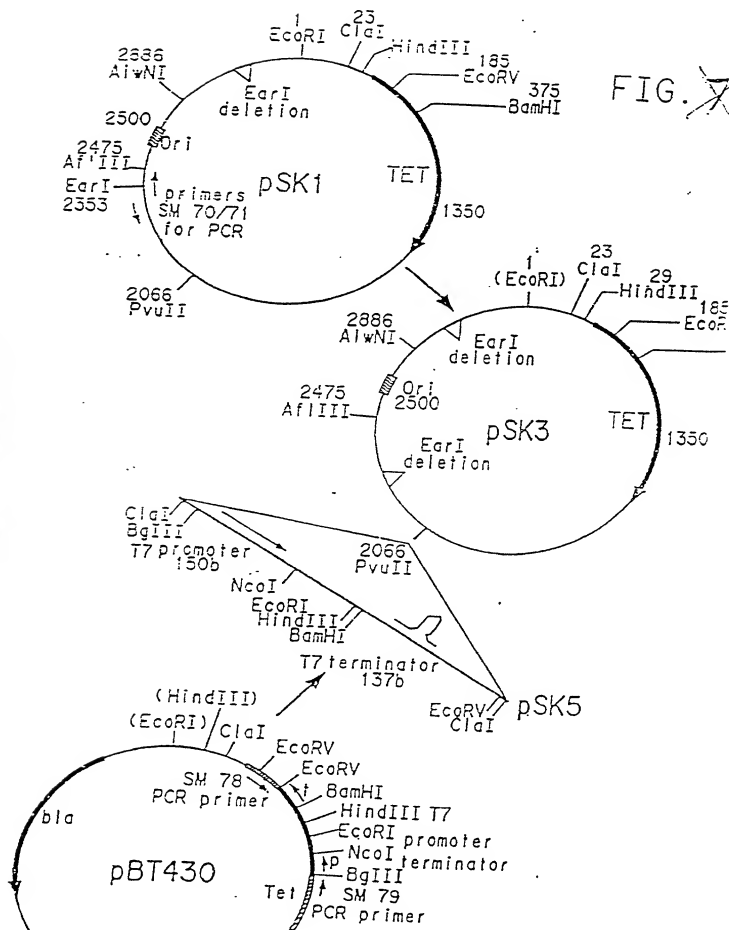


FIG. 8 10

NCOI

EARI

ASP718ECORI

CATGAGGAGAGATGAGGC GATGGAGAGMGATGAGGCG IGNTAGGTACGG
 CTCTCTTCTACT TCCGCTA CCTTCTC TTCGACTTCGGCACTATCCATGGCTTAA
 M E E K M K A M E E K M K A

↓
LIGATE OLIGOS

GATGAGG/AGAAGATGAAGGC

CCTCTCTTCTACTTCCGCTA

M E E K M K A

↓
LIGATE TO EARI CUT VECTOR

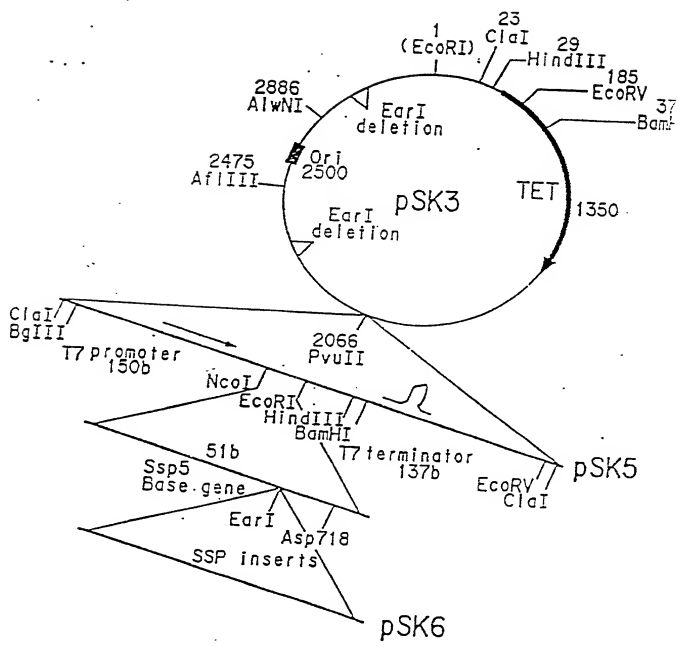
NCOI

EARI

ASP718ECORI

CATGAGGAGAGATGAGGC GATGAGGAGAGATGAGGC GATGGAGAGMGATGAGGCG IGNTAGGTACGG
 CTCTCTTCTACT TCCGCTA CCTCTCTTCTACTTCCGCTA CCTTCTC TTCGACTTCGGCACTATCCATGGCTTAA
 M E E K M K A M E E K M K A M E E K M K A

FIG. 11



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FIG. 12

NCOI
CATGGAGGAGAGAGTGAAMA
 ↑ EARI BSPHI STOP ASP718 ECORI BASE GENE
GCTCGAGAGAGAGATGAAGGTCATGAGTCGAGGTAACG
 CTCTCTTCTACTTTTCTA
 ↑
 M E E K M K K L E E K M K V M K

OLIGONUCLEOTIDE INSERTS

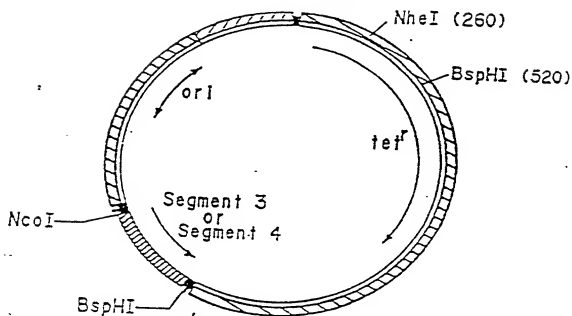
GCTGGAGAMAGATGAAGGCTATGGAGGAGAGATGAATGGCTTGAGGAMAGATGAAGAA
 CCTCTTTCTACTTCGATACCTCTGTCTACTTTACCGAACTCTTTTCTACTTCTTCTGA
 L E E K M K A M E E K M K W L E E K M K K

NCOI
CATGGAGGAGAGATGAAMA GCTGGAGAMAGATGAAGGCTATGGAGGAGAGATGAATGGCTTGAGGAMAGATGAAGCT
 CTCTCTTCTACTTTTCTA CCTCTTTCTACTTCGATACCTCTGTCTACTTTACCGAACTCTTTTCTACTTCTTCTGA
 M E E K M K K L E E K M K A M E E K M K W L E E K M K K L

↓ OLIGOS LIGATED INTO EARI CUT BASE GENE

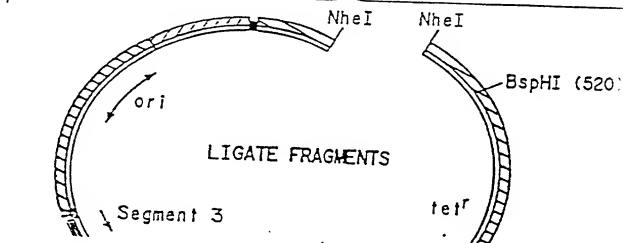
EARI BSPHI ASP718 ECORI
GAGAGAGATGAAGGTCATGAGTCGAGGTAACG
 GCTTCTTCTACTTCGATCTTCACTATCCATGGCTTA
 E E K M K V M K CLONE pSK34

FIG. ~~1A~~ 13A



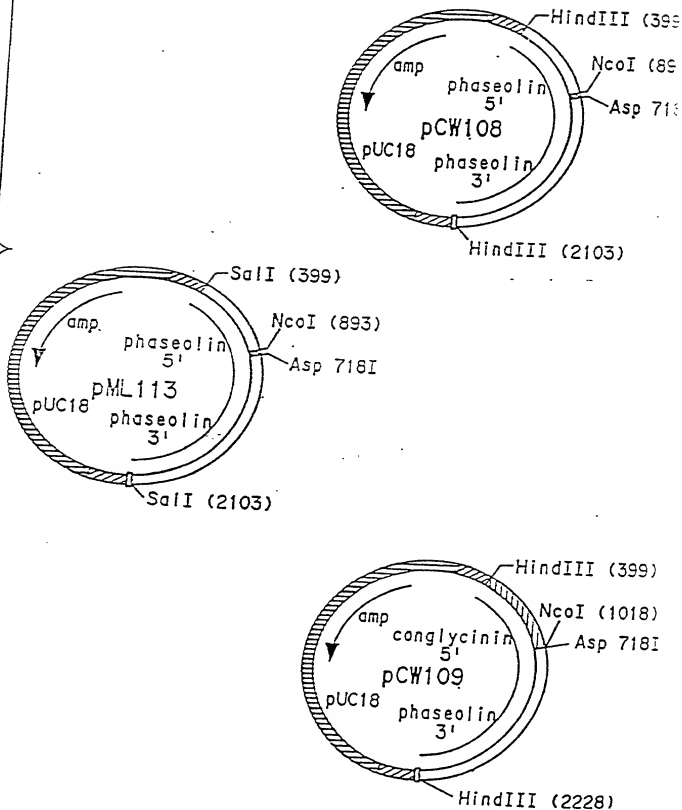
Segment 3 Digest NheI/BspHI Segment 4 Digest NheI/NcoI

FIG. ~~1B~~ 13B



~~12/14~~

FIG. ~~12~~ 14



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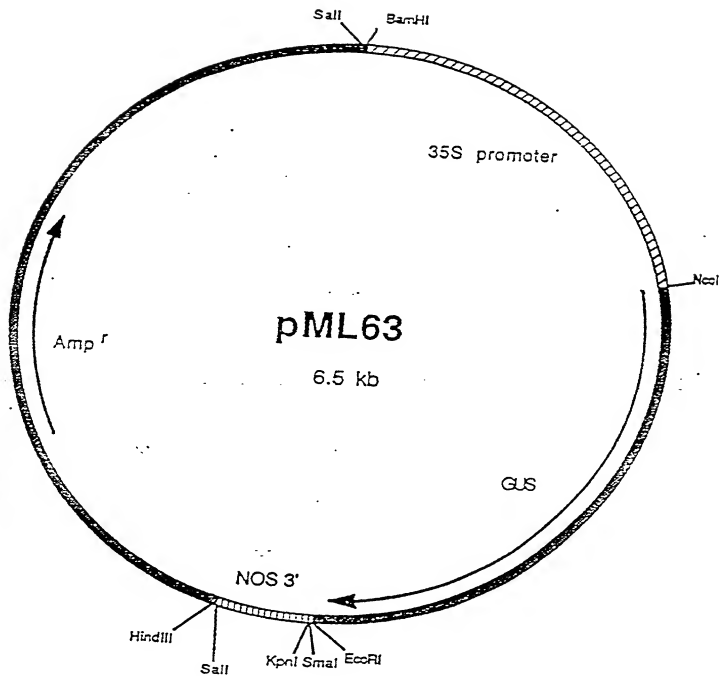


FIG. ~~14~~ 15

~~14~~/14

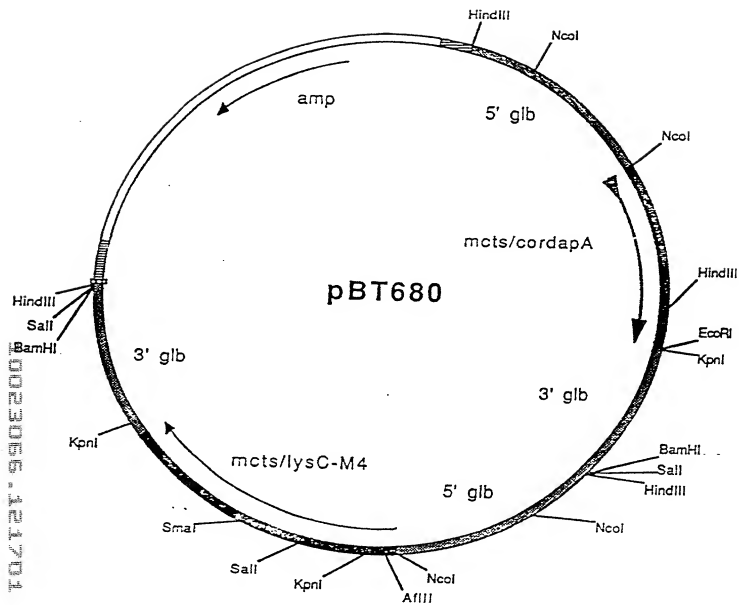


FIG. 16

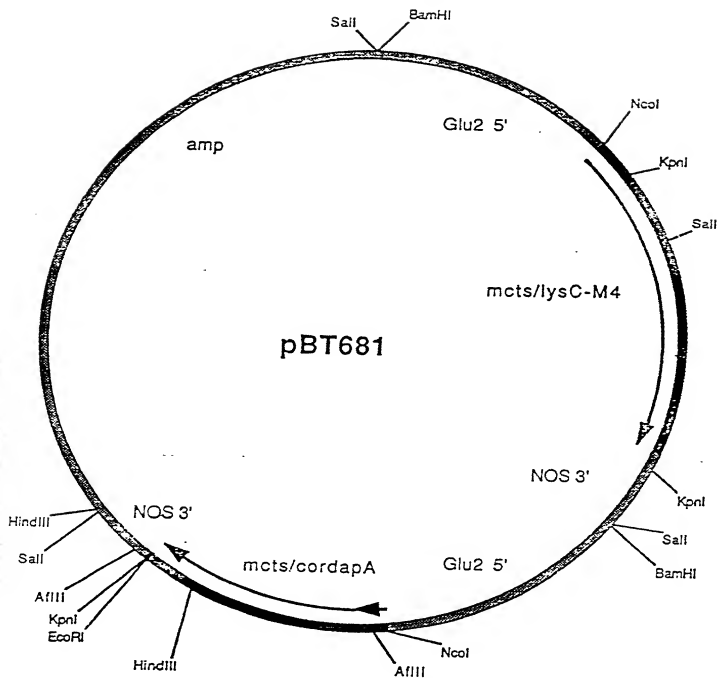


FIG. 17

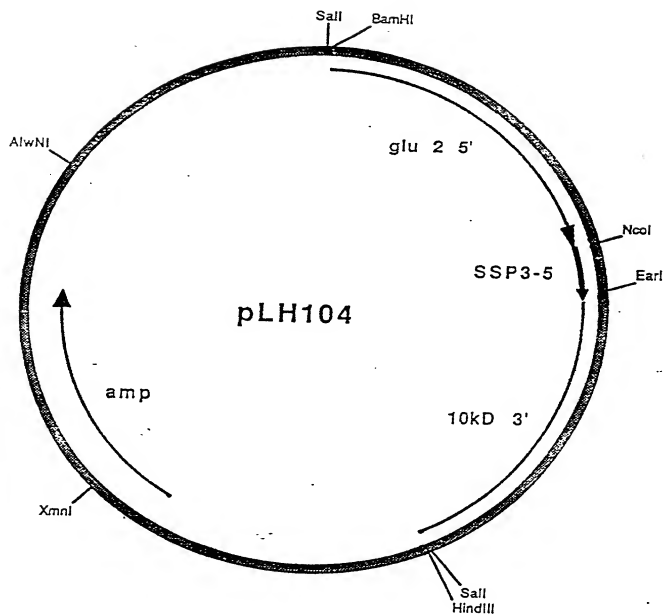
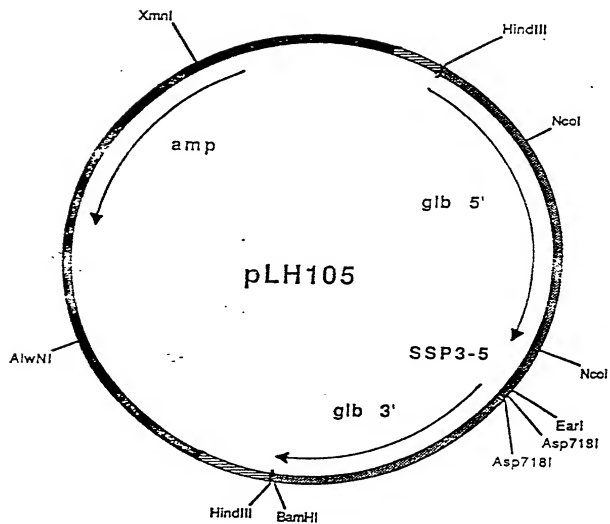


FIG. 18



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